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Constant Variations Related to Phase Change,
by Serge Le Montagner, 48 pp.
FRENCH, per, Annales de Physique, vol V,
1960, pp 469-908. 922311
ABC-EC T-65-707

Sci-111/p
Apr 68

270,137

To the Study of Light Sources in the Far Ultraviolet
and Application to Spectrochemical Analysis, by
G. Balloffet

FRENCH, per, Annales de Physique, Series 13,
Vol 5, 1960, pp 1243-1259

NTC 71-15493-20F

feb 72

(NY-5729/1)

~~THE~~ Spontaneous and Forced Growth Direction in,
Growing of Ferrite Crystals, by Ulrich Roesler¹,
8 pp.

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No 5-6, 1960, pp 236-240.

JPRS 9690

Sci - Phys
Aug 61

163, 111

UN-SECRET

On the Theory of Nuclear Interactions
The Nuclear Force Interaction between
Fragments, by W. Brunner, Harry Paul.
25 pp.

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JPRS 9691

Sci - Nuc Phys

Jan 62

(NY-5729/3)

Experimental Determination of the Components of
Permeability Tensor and the Spectroscopic
Splitting Factor of Mg - Mn Ferrites in the
Microwave Area. I, by K. H. Gothe, 18 pp.

HE GERMAN, per, Annalen der Physik, Vol VI,
~~HEX, YXX~~ No ~~V~~6, Sep 1960, pp ~~298-306~~ 298-306.

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JPRS 9692

Sci - Phys
Aug 61

163,116

(NY-5729)

The General Form of the Law Governing the
Propagation of Shock Waves of the Gravitational
Field, by H. Treder, 6 pp.

REICHEN, Ger, Annalen der Physik, Vol VI,
No 5/6, Sep 1960, pp 307-310.

JPRS 7911

Sci - Phys

Mar 61

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The Temperature Dependence of the Short-Wave-
Length Part of the Absorption of MgO in the
Infrared, by R. Groth, 22 pp.

GERMANY, per, Annalen der Physik, Vol VI, No 7.
1960, pp 323-344. 9207250

ABC/UCRL Tr-920(L)

Sci - Phys

May 61

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63-14927

Döring, W. and Simon, G.
THE DIRECTIONAL DEPENDENCE OF MAGNETO-
STRICTION (Die Richtungsabhängigkeit der Magneto-
striktion). [1963] [32]p. (foreign text included) 8 refs.
Order from SLA \$3.60 63-14927

- I. Döring, W.
- II. Simon, G.

Trans. of Ann[alen der] Phys[ik] (East Germany)
1960 [ser. 7] v. 5, no. 7/8, p. 373-387.

DESCRIPTORS: *Magnetostriction, *Single crystals,
Crystal lattices, Symmetry (Crystallography),
Functions, Tensor analysis, Magnetic properties.

In a single crystal the magnetostriction can be ex-
pressed by means of a second order tensor, the com-
ponents of which depend on the magnetization direc-
tion. With the aid of group-theory method, this
dependence is expressed for all crystals in such a
form that the symmetry of the crystals will suffice for
(Physics--Magnetism, TT, v. 10, no. 4) (over)

Office of Technical Services

The Theory of Nuclear Fission. I. Nuclear Force Interaction Between Fragments. II. Reformation of Fission Fragments. III. Dependence of the Nuclear Force Interaction and the Kinetic Energy on the Deformation. IV. The Effect of Magic Numbers on Nuclear Fission, by W. Brunnex, E. L. L. L.

GERMAN, per, Annalen der Physik, Parts I-IV, Vol VII, No 6, 1960, pp 267-277; Vol VII, No 7, 1961, pp 346-348; Vol VII, No 8, 1961, pp 146-157.

ABC/1488 Tr 897

Sci - Nucl. Phys
May 63

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Experimental ~~Study~~ Study of Contact Thermal
Resistances, by H. Cordier, 16 pp.

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NDC RBIC-116

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Feb 64

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On the Modification of the Statistical Model of the
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8 pp.

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REC DORE 11-11-61

Sci - Phys
Dec 61

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(NY-10)

Evaluation of π -Integrals Used During
Calculations of the Ground State of Lithium.
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JPRS 11630

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Jan 62

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Coincidences, by Robert Manguencville, 96 pp.

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No 9-10, 1951, pp 1121-1180, IF 9669.001

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Jun 63

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TT-64-14745

I. Wagner, R.

Wagner, Rolf
THE ANGLE DEPENDENCE OF THE MAGNETIC
FIELD INDUCED ANISOTROPY IN THE IRON,
NICKEL, FERRITE SINGLE CRYSTAL (Die
Winkelabhängigkeit der Magnetfeldinduzierten
Anisotropie im Eisen-Nickel-Ferrit-Einkristall). [1963]
[24p] (foreign text included)
Order from SLA \$2.60

TT-64-14745

Trans. of Annalen der Physik (East Germany) 1961
[ser. 7] v. 7, p. 302-311

Office of Technical Services

(Physics--Solid State, TT, v. 11, no. 11)

Contributions to the Study of Infrared Emissions in
Germanium, by Jacques I. Pankove, 64 pp.
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pp 331-374. 9225774
AEC-UCRL-Tr-1111 (L)

Sci-Phys
Dec 64

270,084

The Effects of High Pressure on Barium Titanate
Ceramic, by Martin Richard.

GERMAN, per, Annalen der Physik, Vol VIII,
No 7, 1961, pp 333-341.

*Navy/USRL

Sci - Phys
Oct 63

Boulesou, Henri.
INFLUENCE, ON SURFACE TEMPERATURE MEAS-
UREMENTS BY MEANS OF THERMOCOUPLES, OF
RADIATION RECEIVED BY THE LATTER AND
THEIR METHOD OF CONNECTION. [1963] [19p]
4refs

Order from SLA \$1.60

TT-64-14001

Trans. of Annales de Phys[ique] (France) 1962
[ser. 13] v. 7 [no. 9/10] p. 535-544.

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TT-64-14001

I. BOULESOU, H.

Office of Technical Services

The characteristic Curves of X-Ray Films, by
Wadim NEFEDOW, 13 pp.
~~KHESKHXG~~GERMAN, per, Annalen der Physik, Vol VII,
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CIA/FDD XX-1511
NO FOREIGN DISSEM

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Mar 64
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Fischer, R., Neumann, H., and Kleint, Ch.
ON THE THEORY OF FIELD EMISSION IN SEMI-
CONDUCTORS. [1962] 10p. 10 refs.
Order from SLA \$1.10

63-10863

Trans. of Annalen der Physik (East Germany) 1961,
ser. 7, v. 8, no. 3/4, p. 196-203.

DESCRIPTORS: *Semiconductors. *Field emission.
Field theory. Temperature. Penetration.

The theory of field emission in semiconductors for any
temperature range was extended to p-type semicon-
ductors, and formulas for the field penetration were
derived. The surface states were not considered.
(Author)

(Physics - Solid State, 271, v. 10, no. 2)

63-10863

I. Fischer, R.
II. Neumann, H.
III. Kleint, Ch.

Office of Technical Services

The Effects of High Pressure on Barium Titanate
Ceramic, by Martin Richard, 10 pp.
GERMAN, per, Annales der Physik, Vol VIII, No 7,
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Navy Tr 3899/USRL 39

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Oct 64

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Kinetic Theory of Weakly Ionized Plasmas in
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Vol 3, 1961, pp 347-359. 9696438
DDC REC-340

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Apr 65

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Equation of State of a System of Charged Particles,
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AEC-UCRL-Tr-860(L)

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Apr 63

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Measurement of the Relative Intensities of X-Ray
Lines of the L Spectrum of Heavy Elements Excited
by Electron Bombardment, by M. Goldberg, 86 pp.
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AEC/UCRL-Tr-10422-69

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O. Bely

Excitation of Atoms by Electron Impacts, As Applied
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Isoelectronic Series of Lithium and Sodium.

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July-August 1963, pp 303-321.

NASA TT F 14,430

Oct 72

Kamprath, W.
THE OPTICAL ABSORPTION OF AMORPHOUS SELENIUM WITH ADDITIONS OF TELLURIUM, ARSENIC AND BISMUTH. [1963] 6p. 9 refs.
Order from SLA \$1.10 63-10918

Trans. of Annalen der Physik (East Germany) 1962
[ser. 7] v. 9, no. 7/8, p. 382-387.

DESCRIPTORS: *Selenium, *Tellurium, *Arsenic,
*Bismuth, *Absorption spectrum, Infrared radiation,
Melting, Solids.

The infrared absorption spectrum of amorphous selenium was investigated and an exponential dependence of the absorption coefficient on the energy of the incident light was established at the band edge. In addition a band situated at 9.1 microns is confirmed. The homogeneous, mixed selenium-tellurium and selenium-
(Physics--Solid State, TT, v. 10, no. 2) (over)

63-10918

1. Kamprath, W.

Office of Technical Services

AGB and AGBX Type Spectra. Nuclear Resonance
Spectra of Isopropyls, by J. Ranft. 31/7
GERMAN, per, Annalen der Physik, Vol X, No 1, 2,
1963, pp 1-30. 9695072
*FTD-TT-64-537

Sci - Phys
May X 64

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I. Nefedow, W.

Nefedow, Wadim.
THE CHARACTERISTIC CURVES OF X-RAY FILMS.
[1964] 13p 4refs
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TT-64-10938

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(Materials--Photographic, TT, v. 11, no. 12)

Office of Technical Services

Agency: Air Force

P. O. #: ARO-0001-70-08

Title: Fehlerabschätzung für Messungen mit
magnetischen Sonden.

Author: G. Ecker and others.

Source: Annalen der Physik, 10, 220 (19620)

Language: German to English

Special Instructions: Please translate and
type one copy.

*R-13488-8
15 July 1971*

pp 120-228

High-Purity Germanium -- Surface Conduction and
Carrier Life, by F. Aurich, H. P. Kleinknecht, et al,
29 pp.

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1963, pp 83-100. 92 2 355 6

AEC-ORNL-Tr-120

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Sep 64

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ACC. (RFP-Trans-78) 5 DETERMINATION OF THE
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26 Physics (nuclear); translations 27 20H

28 MN-34 29 P NSA

The Coherence of Induced Radiation,
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Vol XII, 1963, pp 290-301.
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Aug 66

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The Three-Dimensional Distribution
of the Electron Temperature in a
Weakly Ionized Low-Pressure Plasma
in Homogeneous Magnetic Fields, by
H. Schott, 17 pp.
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Vol 12, No 3, 4, 1963, pp 121-137.
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PTT-PT-64-1218

H. Schott
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Nuclear Resonance Fluorescence in the Mev-Region
With Neutron Capture Radiation, by Hans H. Fleischmann,
26 pp.
GERMAN, per, Annalen der Physik, Vol XII, Series 7,
No 3, 4, 1963, pp 133-155. 9222294
ABC-Tr-6370

Sci-Phys
Jun 64

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Theory of Quantum-Plasma, by G. Kelbg, 6 pp.
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1963, pp 219-224, 9695602
FTD-TT-684-425

Sci - Phys
Feb 65

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Combined Distributions of Potential and
Concentrations in Electrochemical Cells, by
Michel Guillou, 100pp
FRENCH, per, Ann Phys., Vol 8, 1963, ser 13,
pp 551-576
TC-335

Sci - Chem
June 67

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General Properties of Electron Gas,
by W. Hacke, P. Ziesche.
FOR GOVERNMENT USE ONLY
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Vol XIII, 1964, pp 25-40. 9695811
DDC RSIC-339

Sci - RS
Apr 65

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Blackening of Agfa-Schumann and Q₂ Plates by
Ions of Different Masses with an Energy of 2.5-20
KeV, by H. Wagner

GERMAN, per, Annln Phys, Vol. 13, No. 7, 1964.

pp 189-207

GB 131/T 4879

Sci -
Aug 67

337-221

Concerning the Luminescence of Gases Ex-
cited by W. Hanle, E. Kugler.

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1964, pp 252-273.

Dept of Navy NOL-802TT

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Jan 69

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Measures of Velocities by Doppler Effect of
Millimeter Waves, by Guy Garcin,

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RSIC-521

Sci-Phys

May 67

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On the Theory of the Contact of Solid Elastic
Bodies, by M. T. Huber.
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Sci/Phys
Apr 68

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The Luminescence of the Rare Gas Mixtures Ar/Xe,
Kr/Xe, Ar/KR, and Mixtures XeN₂ and Kr/N₂ in Excitation
With Fast Electrons, by E. Kugler.
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pp 137-146.
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Jan 72

On the Existence of a Maximum Principle as an
Equivalent Formulation of the Potential of
Atoms, by K. Guenther. ^{#7} 19 pp
GERMAN, per, Annalen der Physik, Vol 14, 1964,
pp 296-309.
AEC-ORNL-tr-2156

Sci-Phys
Aug 69

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On Diffusion, by Adolf Fick,

GERMAN, per, in Ann Physik und Chem, Vol XCIV,
1855, pp 59-86.

ABC Tr-4009)

Sci
May 61

151, 151

R-11353-D S.S.
25 Feb. 70

Agency: Air Force
R.D.#: ARO-0001 70-3
Title: Über Ringbildung in Flüssigkeiten
Author: Reusch, E
Source: Annalen der Physik und Chemie 180p
309 (1860)
Language: German to English
Special Instructions: Please translate and
type one (1) copy.

On the Thermal Conductivity of Liquids, by
L. Gratz, 13 pp.

Hermann
~~MALEK~~, per, Ann Phys Chem, Vol XVIII, 1883, ⁸
pp 79-94.

AEC/AERE Lib 794

Sci - Phys

Nov 58

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Heat Conduction in Fluids, by L. Graetz, 19 pp.

German
~~ITALIAN~~, ~~For~~, Ann Phys Chem, Vol XXV, 1885. pp
225-238.

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Sci. - Phys.

Nov 58

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The Generation of Electricity and Heat in Electrolytes,
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Full translation.

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No 2, 1890, pp 161-186.

NIH TR 77

Scientific - Chemistry

Nov
Oct 55
CIB/DEX

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Determination of the ~~EXPERIMENTAL~~ Optical Constants of
Metals, by P. Drude.

GERMAN, per, ~~Annalen der Physik und Chemie~~,
Neue Folge (Annals of Physics and Chemistry,
New Series), Vol. XXXIX, No 4, 1890, pp 483-504.
9203411.

AEC-SCL-T-448

Sci - Met & Met

Mar 63

326 575

On the Difference of Potential Between Two Diluted
Solutions of Binary Electrolytes, by M. Planck, 27 pp.

Full translation.

GERMAN, per, Ann.d.Phys.u.Chem. (new series), Vol XL,
No 8, 1890, pp 561-576

NIH TR 76

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Oct 55
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Hydrodynamic-Acoustic Experiments. On the
Moment of Rotation Experienced by a Revo-
lution Ellipsoid Resting in an Oscillating
Liquid, Theory of the Rayleigh Discs, by
W. Konig.

GERMAN, per, Ann Phys : Chem, Vol XLIII, 1891,
pp 43-60.

INSDOC-1891

Sci - Aug 58

72,724

On Vibrations of the Air, by A. Raps.

GERMAN, per, Annalen der Physik und Chemie,
Vol L, No 10, 1893, pp 193-220.

*Navy/APL 258

Sci - Phys
Aug 63

Propagation of Electrodynamic Waves on a Wire. by A.
Sommerfeld, 10 p.

FRENCH, Gen, Ann Phys & Chem, Vol LXXVII, No 2. 1899,
pp 233-236, 287-290

SLA 50-65

Sci

Jul 59

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The Propagation of Light in a Dispersing Medium,
by A. Sommerfeld

GERMAN, per, Annalen der Physik und Chemie, Vol IV, No
44, 1914, pp 177-202.

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Scientific - Physics
CIS/INDEX

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Halides, by J. J. Berzelius, 3 pp.

GERMAN, per, Ann Phys Chem, Vol XCII, No 2,
1829, pp 403-406.

AEC Tr 2826

Sci - Chemistry

45, 104

Mar 57/OTS

On the Limits of the Stability of All Liquid Jet,
by J. Plateau.

GERMAN, per, Ann Phys Chem, Vol 80, 1950,
pp 566-569.

*BISI 8342

Sci-Chem
June 70

60-18009

Wirtz, K.
ON THE KINETICS OF THERMAL DIFFUSION IN
LIQUIDS (Zur Kinetik der Thermodiffusion in
Flüssigkeiten). [1960] [12]p. 20 refs.
Order from SLA mi\$2.40, ph\$3.30 60-18009

Trans. of Annalen der Physik (Germany) 1939 [ser. 5]
v. 36, p. 295-302.

147,112

1. Liquids--Temperature factors
2. Liquids--Diffusion
3. Diffusion--Temperature factors
4. Title: Thermal diffusion
1. Wirtz, K.

Office of Technical Services

(Unannounced)

Pauli's Exclusion Principle, by W. Heisenberg.

GERMAN, par, Ann Phys Lpz, Vol X, 1931, pp 888-904.

RAE Farnborough Tr 639

Sci - Physics
Nov 57

55, 3417

Anomalous H^+ and OH^- ion Mobility In Water, by A. Gierer.

FRENCH, Ger, Annls. Phys., Ser. C, Vol 6

1949, pp 257-304

GB 10/4264

Sci -

Sep 57

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Peak Metabolism and Metabolic Quotient, by
J. Gaja.

FRENCH, Per, Annales de Physiologie et de Physiochimie
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CSIRO/No 5224

Sci
Jan 63

Research on the Tonus and Contraction of Skeletal
Muscles, by F. Bremer, J. Titeca, 4 pp.

FRENCH, per, Ann de Physiolog et de Physiocochimie
Biolog, Vol IV, 1928, pp 739-743.

NIH 12-35

Sci - Med

Jan 58

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Effect of the Thermal Environment of Adaption on
the Thermogenesis of Homoiothermas, by M. Gelineo.

FRENCH, Annales de Physiologie et de Physiochimie
Biologique, Vol X, 1934, pp 1083-1115.

CSIRO/No. 5226

Sci
Dec 62

The Function of the Pancreas Considered as an
Endocrine Gland, by Ogo Lombroso, 2 pp.

FRENCH, per, Annales de Physiologie et de
Physicochimie Biologique, Vol XVI, 1940, pp 298-312.

SLA 60-10841

Sci

OTS, Vol III, No 6

Sep 60

Order from NTC

ANNALES DE PHYSIOLOGIE VEGETALE. PARIS
1959 V1 N1 PB3-91 70-11626-06A <

Effects of Ammonium or Nitrate Nutrition and of a
Change in the Nitrogenous Nature of this Nutrition
Upon the Anion and Cation Metabolism of the Plant
Plant, by Y. Galet.

FRENCH, J., Annales de Physiologie Vegetale, Vol. 1,
No. 2, pp. 117-125
CSIRO, 1967.

Sci -
July 1967

100-100

The Organic Acids of Forage Plants. Pt. II.
Variations with the Stage of Development in
the Case of Orchard Grass and Meadow Fescue,
by G. Fauconneau.

FRENCH, per, Annales de Physiologie Vegetale,
Vol I, No 2, 1959, pp 179-187.
SLA TT 64-30288

Sci-
Jun 67

327,332

Absorption and Utilisation of Luminous
Energy by Plants Cultivated Under Natural
Conditions, by C. Costes.

FRENCH, per, Annales de Physiologie Vegetale,
Vol III, 1960, pp 175-229.

MJ/T. 518

Sci-Biol
Aug 63

341,954

Comparison Between the Influence of Nitrate and Ammonia
Nutrients, Combined, With or Without Phosphoric Acid
Deficiency, on the Absorption and Metabolism of Anions and
Cations and More Particularly of Organic Acids in Maize.
EXComparison Between Maize and Tomato in Regard to
the Nature of Nitrogen Supplies, by Y. Colic, et al.
FRENCH, per, Annales de Physiologie Vegetale, Vol III,
No 3, 1961, pp 141-163.

CSIRO/No 6173

Sci - Biol

Feb 64

250,402

To the Study of Light Sources in the Far
Ultraviolet and Application to Spectrochemical
Analysis, by G. Balloffet.
FRENCH, per, Annales de Physique, Series, 13,
Vol 5, 1960, pp 1243-1259.
NTC-71- 15493-20F

Feb 72

Nuccorine, R. and Menna, G.
STUDIES ON THE COMBUSTIBILITY OF TOBACCO,
IV. [1962] 36p.
Order from K-H \$45.00 , K-H 3965-b

Trans. of [Pisa U. Facoltà di Agraria. Annali] (Italy)
1930, v. 6, p. 263-279.

DESCRIPTORS: *Combustion, *Tobacco, Chemical
properties.

(Chemistry--Analytical, TT, v. 9, no. 1)

62-22614

- I. Nuccorine, R.
- II. Menna, G.
- III. K-H-3965-b
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Benoit, J. R.
STANDARDIZATION OF SETS OF WEIGHTS. [1963]
57p. 5 refs.
Order from SLA \$5.60

63-14704

Trans. of Annales des Poids et Mesures [sic] 1907,
v. 13, p. 1-48.

DESCRIPTORS: Standardization, *Weights (Analytical)

(Research Methods, Techniques and Equipment, TT,
v. 10, no. 10)

63-14704

I. Benoit, J. R.

Office of Technical Services

Note on the Cost of Railway Transport, by
W. Nordling, 7 pp.

FRENCH, bk, Annales des Ponts et Chaussées,
1886, pp 292-303.

Macmillan & Co Ltd.
Internatl Econ Papers,
No 10

WEur-France
Econ

CIA Lib HB 31 .I6 V.10
Jun 61

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Contribution to the Study of the Elastic Deformation
of Solids, by A. Mesnager, 60 pp.
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DDC RSIC-305

Relation Annual AD-607-734

Sci - Phys
Nov 64

269,426

Preyssinet, E[ugen].
PRINCIPLES OF A THEORY OF THE SHRINKAGE OF
CEMENTS. [1963] 9p
Order from SLA \$1.10

TT-64-14351

Trans. of Annales des Ponts et Chaussées (France)
1932 [ser. 8, v. 102] no. 3, p. 408-416.

DESCRIPTORS: *Cements, *Deformation, Theory,
*Loading (Mechanics),

(Materials, TT, v. 11, no. 9)

TT-64-14351

1. Preyssinet, E.

Office of Technical Services

Freysinet, E.
PRINCIPLES OF A THEORY OF THE SHRINKAGE OF
CEMENTS. Presented to the Convention of the "Associ-
ation International des Ponts et Charpentes", 23 May 32.
[1964] [9p]
Order from SLA \$1.10

TT-64-14849

Trans. of Annales des Ponts et Chaussées (France)
1932 [ser. 8, v. 102] p. 1434-1442.

(Materials, TT, v. 11, no. 12)

TT-64-14849

I. Freysinet, E.
II. Title: Association ...

Office of Technical Services

Lucas, Maurice.
CONTRIBUTION TO THE STUDY OF THE SHRINK-
AGE OF CEMENTS. (1960) [58]p. 13 refs.
Order from SLA in \$3.60, ph \$9.30 61-10663

Trans. of Annales des Ponts et Chaussées (France)
1937 [8 ser.] v. 107, no. 2, p. 223-282.

151812

(Unannounced)

61-10663

1. Cements--Physical properties
1. Lucas, M.

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